

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Gerhard Erker et al.

Application No.: 09/851,643

Confirmation No.:

Filed: May 8, 2001

Art Unit: 1621

For: TRANSITION METAL COMPOUND

Examiner: G. P. Nazario

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08.

This Information Disclosure Statement is filed after the close of the interference no 105,362. All the references cited in Dow Chemical Company's Exhibit List exhibit nos. 1020-1041 are enclosed with this IDS. Exhibits 1001-1019 have been redacted since they are not prior art relating to this application. In addition, the applicant has become aware of some additional references which are also cited in the IDS.

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), Applicants have not submitted copies of U.S. patents and U.S. patent applications. Applicants submit herewith copies of foreign patents and non-patent literature in accordance with 37 C.F.R. § 1.98(a)(2).

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this

application by this firm) to our Deposit Account No. 03-2775, under Order No. 09086-00176-US.

Dated: July 16, 2007

Respectfully submitted,

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Substitute for form 1449/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				Application Number	09/851,643
				Filing Date	May 8, 2001
				First Named Inventor	Gerhard Erker
				Art Unit	1621
				Examiner Name	G. P. Nazario
Sheet	1	of	2	Attorney Docket Number	09086-00176-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA*	US-4,590,287	05-20-1986	Riediker et al.	
	AB*	US-4,857,654	08-15-1989	Riediker et al.	
	AC*	US-4,963,470	10-16-1990	Klingert et al.	
	AD*	US-5,026,625	06-25-1991	Riediker et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
	BA	EP-0122223-A2	10-17-1984	Ciba Geigy AG		See US 4,590,287
	BB	EP-0255486-A2	02-03-1988	Ciba Geigy AG		See US 4,857,654
	BC	EP-0256981-A2	02-24-1988	Ciba Geigy AG		See US 4,963,470
	BD	EP-0277003-A1	08-03-1988	Exxon Chemical Patents Inc		
	BE	WO-88/05793	08-11-1988	Exxon Chemical Patents Inc		
	BF	EP-0318893-A2	06-07-1989	Ciba Geigy AG		See US 5,026,625
	BG	WO-92/05208-A1	04-02-1992	Exxon Chemical Patents Inc		
	BH	JP-5039229	02-19-1993	Idemitsu Kosan Co		
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	BJ	WO-94/00500-A1	01-06-1994	Exxon Chemical Patents Inc		
	BK	EP-0587141-A1	03-16-1994	Tosoh Corp		
	BL	EP-0587143-A1	03-16-1994	Tosoh Corp		
	BM	JP-6087877	03-29-1994	Tosoh Corp		
	BN	JP-06239913	08-30-1994	Mitsui Petrochemical Ind		See Abstract

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	GOMEZ, R. et al., "Dialkyl- and Chloroalkyltitanium <i>ansa</i> - Metallocene Complexes: Synthesis and Characterization. Crystal Structure of [ $\eta^5$ - $\eta^5$ -(C <sub>5</sub> H <sub>4</sub> ) <sub>2</sub> Si(CH <sub>3</sub> ) <sub>2</sub> TiClCH <sub>3</sub> ], Organometallics, 1991, Vol. 10, pp. 2516-2518.	
	CB	GROSSMAN, R. B. et al., "Enantioselective, Zirconium-Mediated Synthesis of Allylic Amines", J. Am. Chem. Soc., 1991, Vol. 113, pp. 2321-2322.	
	CC	COLLINS, S. et al., "Additions of Chiral Allyltitanocenes to Aldehydes: Diastereoselective Synthesis of Homoallylic Alcohols with a Recyclable Chiral Transition Metal Reagent", J. Org. Chem., 1989, Vol. 54, pp. 4154-4158.	
	CD	BUNEL, E. et al., "Carbon-Carbon Bond Activation via $\beta$ -Alkyl Elimination. Reversible	

Examiner Signature	Date Considered
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Sheet	2	of	2	Attorney Docket Number	09086-00176-US

		Branching of 1,4-Pentadienes Catalyzed by Scandocene Hydride Derivatives", J. Am. Chem. Soc., 1988, Vol. 110, pp. 976-978.	
	CE	YASUDA, H. et al., "Zirconocene- $\eta^4$ -1,3-Pentadiene Complex and Its Higher Homologues. A New Synthetic Method Involving $\sigma$ - $\pi$ Rearrangement of the Hydrido-2,4-pentadienylzirconium Species", Organometallics, 1984, Vol. 3, pp. 1470-1478.	
	CF	SMITH, J. A. et al., "Ansa-Metallocene Derivatives, III*. Influence of an Interannular Ethylene Bridge on the Reactivity of Titanocene Derivatives", Journal of Organometallic Chemistry, 1981, Vol. 218, pp. 159-167.	
	CG	COLLMAN, J. P. et al., "Survey According to Ligand, " Principles and Applications of Organotransition Metal Chemistry, 1987, pp. 94-182.	
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	CI	WILD, F. R.W.P. et al., "ansa-Metallocene Derivatives, IV. * Synthesis and Molecular Structure of Chiral ansa-Titanocene Derivatives with Bridged Tetrahydroindenyl Ligands", Journal of Organometallic Chemistry, 1982, Vol. 232, pp. 233-247.	
	CJ	HORTON, A. D., "Double-Insertion Reaction of Alkynes with $[Cp^*_2ZrMe]^+$ : Formation of an Unusual Distorted $\eta^5$ -Pentadienyl Ligand", Organometallics, 1992, Vol. 11, pp. 8-10.	
	CK	SIKORA, D. J. et al., "Reactions of $Cp_2M(CO)_2$ and $Cp_2M(CO)(PPh_3)$ (M = Zr, Hf) with Acetylenes: Formation of Some Metallacyclopentadiene Complexes of Zirconocene and Hafnocene", Journal of Organometallic Chemistry, 1984, Vol. 276, pp. 21-37.	
	CL	DIAMOND, G. M. et al., "Diene and Arene Compounds of Zirconium and Hafnium", J. Chem. Soc. Dalton Trans., 1992, pp. 2641-2646.	
	CM	YASUDA, H. et al., "Regio- and Stereochemistry in the Sequential Insertion of Carbonyl Compounds into Zirconium-Diene Complexes", Journal of Organometallic Chemistry, 1989, Vol. 363, pp. 61-76.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

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